A pull-on disposable diaper that is provided in parallel to transversely opposite side edges thereof in its rear waist region with fastening tape strips. The tape strips are configured in its rolled up state for disposable after the diaper has been used. Each of the tape strips includes longitudinally opposite end regions firmly bonded to respective peripheral edges of the diaper's waist-opening and leg-openings. An intermediate region of each of the fastening tape strips includes an adhesive region on its inner surface which is adapted to be separably bonded to the outer surface of the diaper when rolled up for disposal.